



AVOX Systems

SERVICE INFORMATION LETTER

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OXYGEN - ATA CHAPTER 35

VENDOR CODE: 53655

Test Data Sheet for P/N 803127 and P/N 803163 Series Crew Oxygen System Regulator, Transducer and Coupling Assembly, and P/N 804182 Series Transducer and Coupling Assemblies

1. BACKGROUND

- A. This SIL provides a standardized form on which to record the results of the required functional tests in Component Maintenance Manual 35-12-03 that must be passed in order to return a unit to service. This form will be incorporated into the Component Maintenance Manual at the next revision.
- B. You are authorized to copy the form on page 2. If you copy the form on page 2, you must copy all of the form.
- C. Use this form only for the AVOX Systems component printed on the form. Do not use this form for any other AVOX Systems components or for any components of another company.

2. EFFECTIVITY

- A. Aircraft
The Test Data Sheet on page 2 can be used for all units whether removed from any aircraft or from spares inventory.
- B. This SIL applies to P/N 803127 and P/N 803163 Series Crew Oxygen System Regulator, Transducer and Coupling Assembly, and P/N 804182 Series Transducer and Coupling Assemblies only.

3. MATERIALS

The only material required by this SIL is the Test Data Sheet on page 2.

4. ACCOMPLISHMENT OF SIL

- A. Make complete copies of the Test Data Sheet on page 2.
- B. Use a copy of the Test Data Sheet from page 2 to record the results of tests whenever a P/N 803127 or P/N 803163 Series Crew Oxygen System Regulator, Transducer and Coupling Assembly, or a P/N 804182 Series Transducer and Coupling Assembly is tested.

5. TO CONTACT AVOX SYSTEMS:

Use the contact information below to get a copy of a Component Maintenance Manual or the revision status of a publication. Give the AVOX Systems part number and the aircraft model when you request a Component Maintenance Manual copy.

First tier operators:

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COMPONENT MAINTENANCE MANUAL 35-12-03

TEST DATA SHEET

803127 and 803163 Series Crew Oxygen System Regulator, Transducer and Coupling Assembly & 804182 Series Transducer and Coupling Assembly

Tested by: _____

Date: _____

Part Number: 803127- _____

Inspected by: _____

Date: _____

Part Number: 803163- _____

Part Number: 804182- _____

Serial Number: _____

Refer to the Check and the Testing and Trouble Shooting sections of COMPONENT MAINTENANCE MANUAL 35-12-03.**1. thru 4. Check**

Inspect the assembly and components for evidence of external damage, scoring, thread damage, and overall condition. Verify no evidence of deterioration to elastomer components. Verify that any parts that are no longer serviceable have been replaced.

☐ FAILPASS ☐**6. Test Procedures****A. Leakage Test**

Perform a leakage test.

Inlet Pressure psig (MPa)	Duration (minutes)	0 Leakage Allowed
1850 ± 50 (12.76 ± 0.34)	1.0	☐ FAIL PASS ☐

6. Test Procedures**B. Transducer Output Voltage Test**

Perform an output voltage test on 803163 and 804182 Series.

Inlet Pressure psig (MPa)	Output Voltage (VDC)		
	P/N 10003108	P/N 10008792	
500 (3.45)	0.896 - 1.344	1.036 - 1.204	☐ FAIL PASS ☐
1000 (6.90)	2.016 - 2.464	2.156 - 2.324	☐ FAIL PASS ☐
1500 (10.34)	3.136 - 3.584	3.276 - 3.444	☐ FAIL PASS ☐
2000 (13.79)	4.256 - 4.704	4.396 - 4.564	☐ FAIL PASS ☐

Perform an output voltage test on P/N 803127 Series only.

Inlet Pressure psig (MPa)	Output Voltage (VDC)	
	P/N 10005937	
0 (0)	0.0 - 0.200	☐ FAIL PASS ☐
500 (3.45)	1.000 - 1.200	☐ FAIL PASS ☐
1000 (6.90)	2.000 - 2.200	☐ FAIL PASS ☐
1850 (12.76)	3.700 - 3.900	☐ FAIL PASS ☐

6. Test Procedures**C. Regulator Assembly Test**

Verify operation of regulator assembly P/N 27660-02, -08, and -23.

Verify Regulator
Performance
(Refer to CMM 35-11-26)☐ FAIL PASS ☐NOTE: FLOWS ARE GIVEN FOR OXYGEN TEST GAS @ NTPD.
APPLY THE APPROPRIATE CORRECTION FACTOR IF ANOTHER MEDIUM IS USED.